

FIG. 1

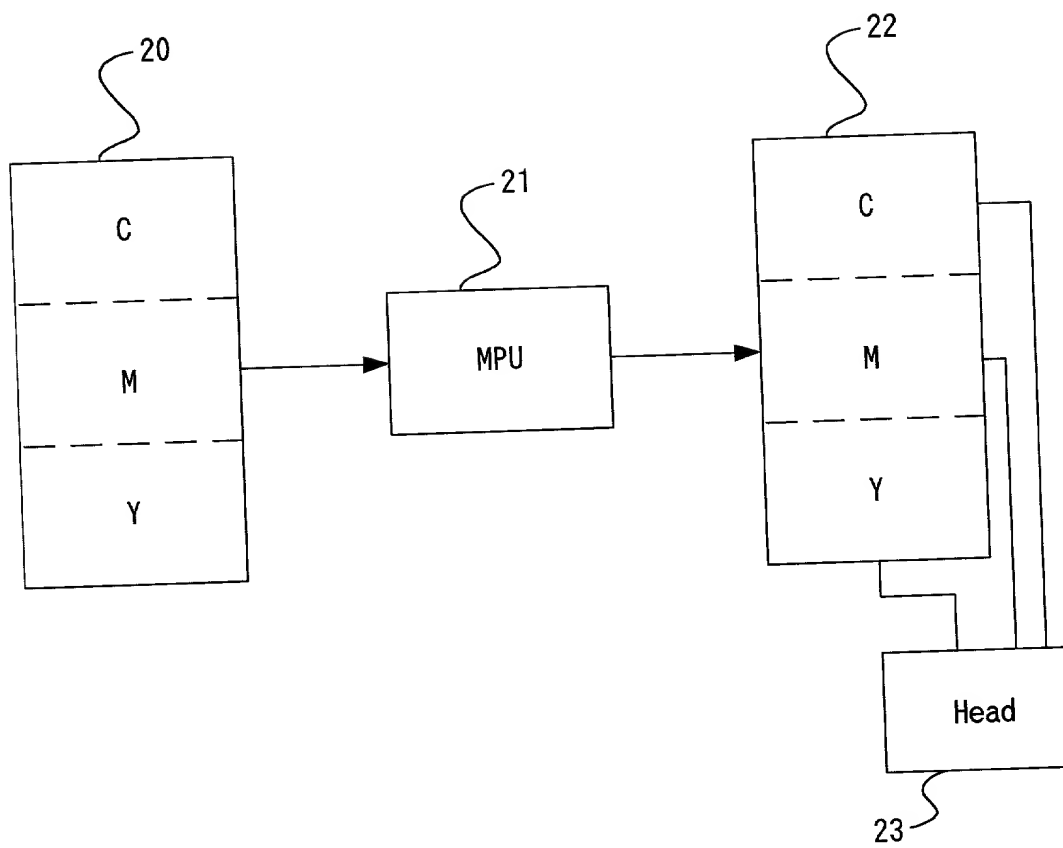
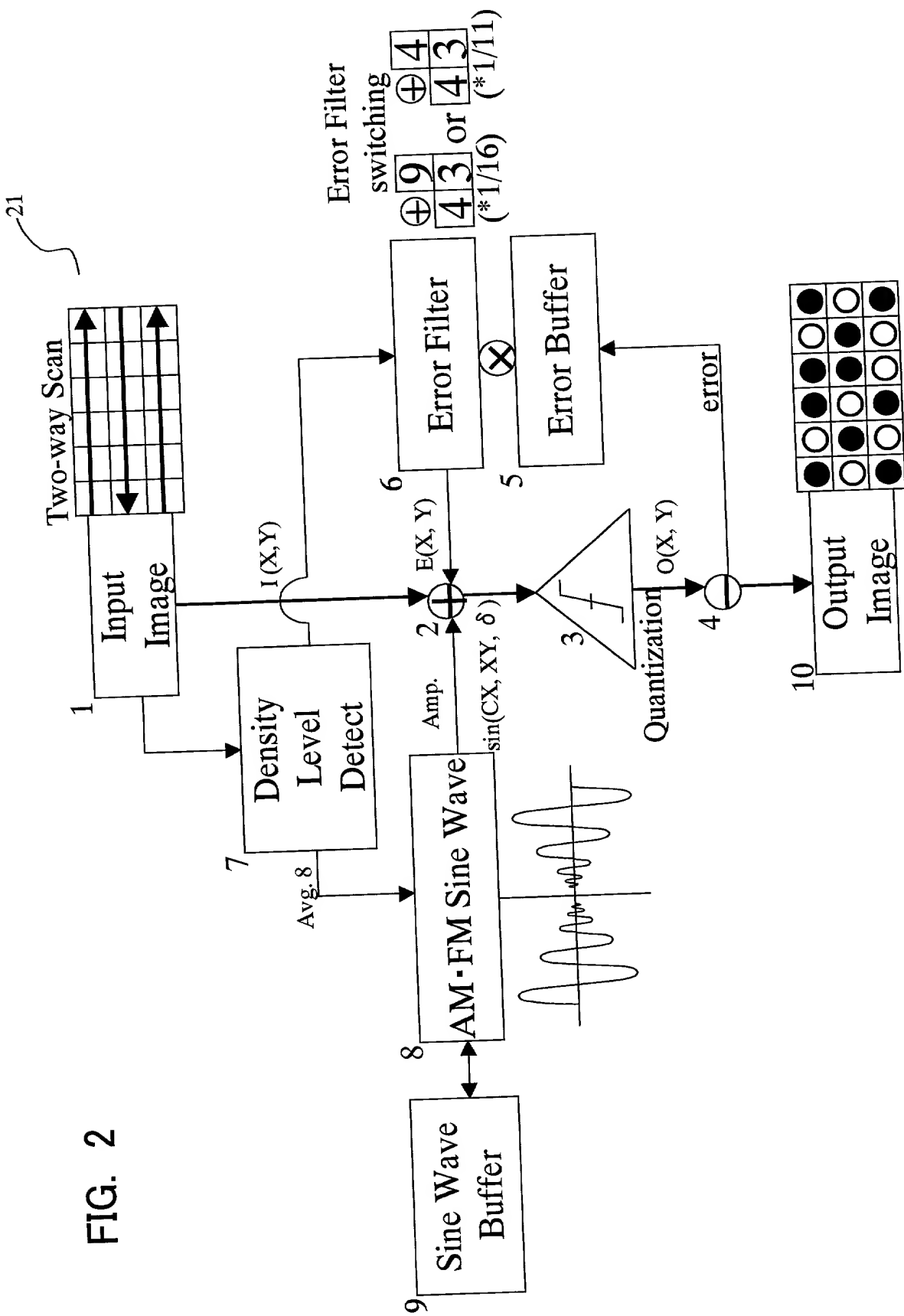


FIG. 2



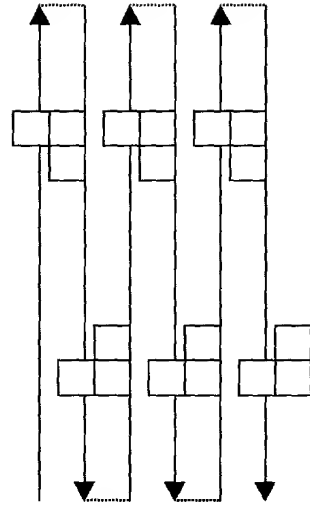


FIG. 3

FIG. 3 shows three vertical paths in a 2D space. The paths are defined by two vertical lines. Arrows at the top of each path point upwards, and arrows at the bottom point downwards. Small squares are placed at various points along these paths. In the first path, there is a square on the left line near the top and a square on the right line near the bottom. In the second path, there is a square on the left line near the top and a square on the right line near the bottom. In the third path, there is a square on the left line near the top and a square on the right line near the bottom.

FIG. 4

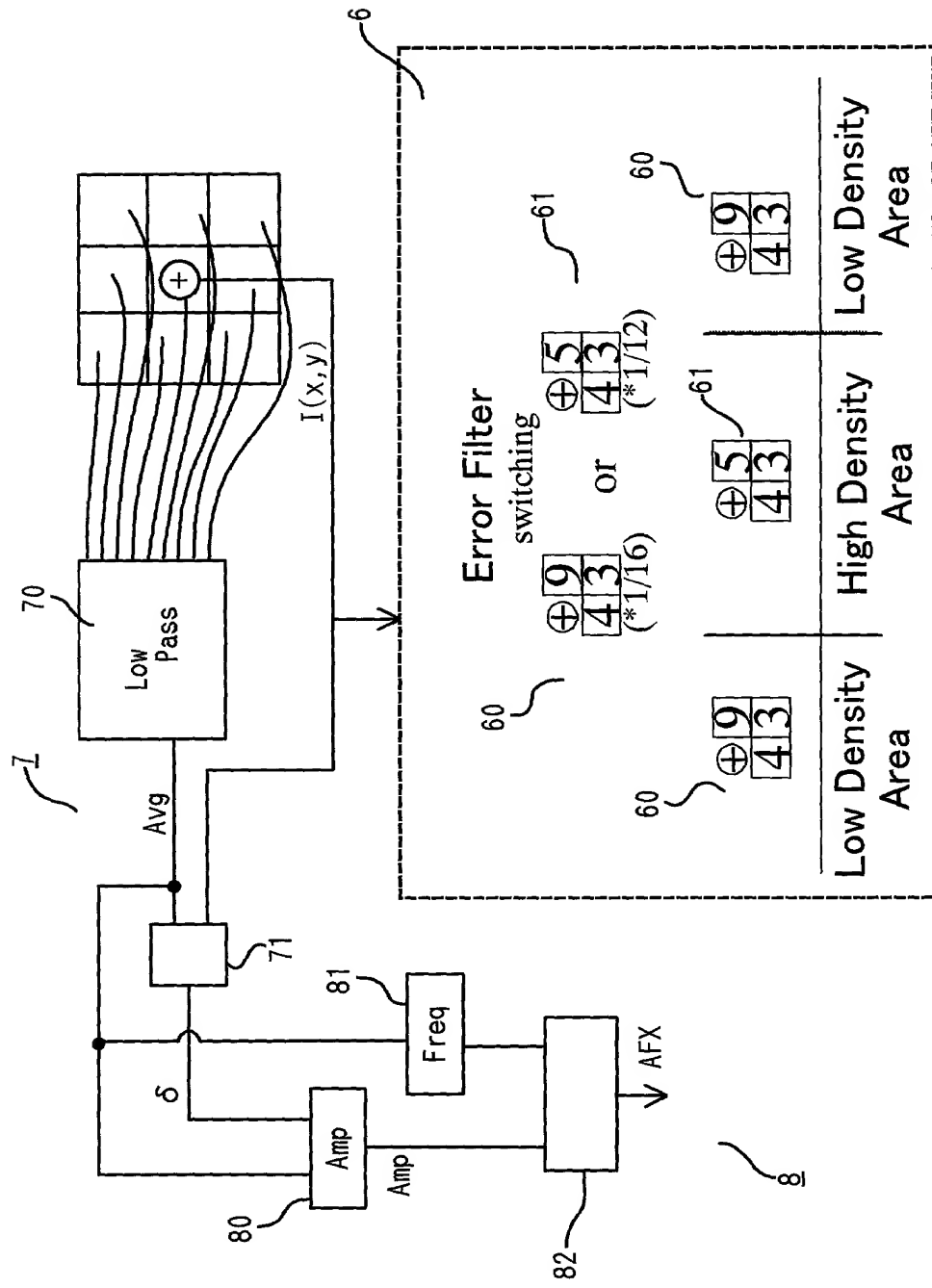


FIG. 5A

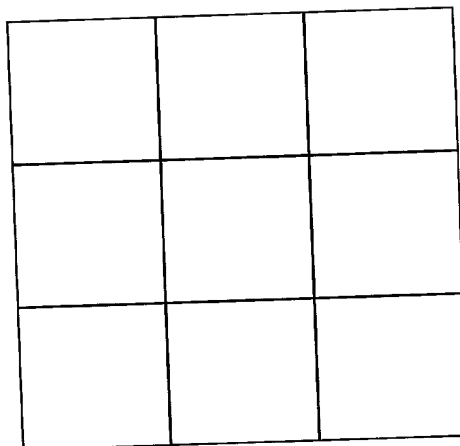


FIG. 5B

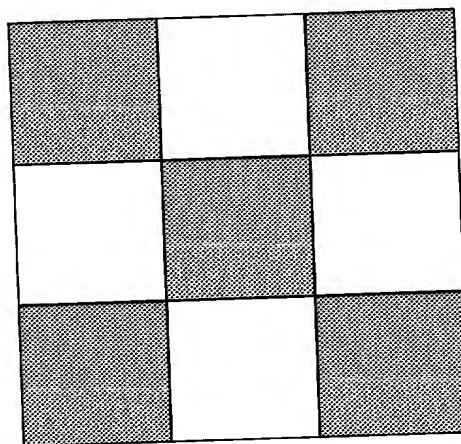


FIG. 5C

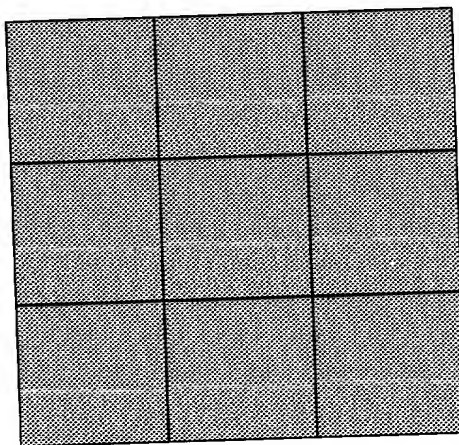


FIG. 6A

$\text{mod}(\text{Avg}, 255/(Q-1))$   
 $Q=2$  (Binarize)

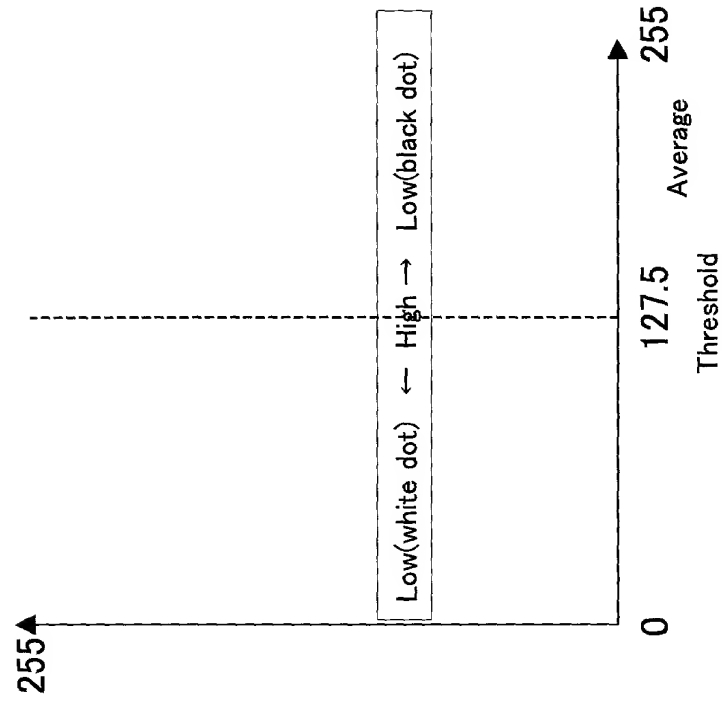


FIG. 6B

$\text{mod}(\text{Avg}, 255/(Q-1))$   
 $Q=4$  (Quaternary)

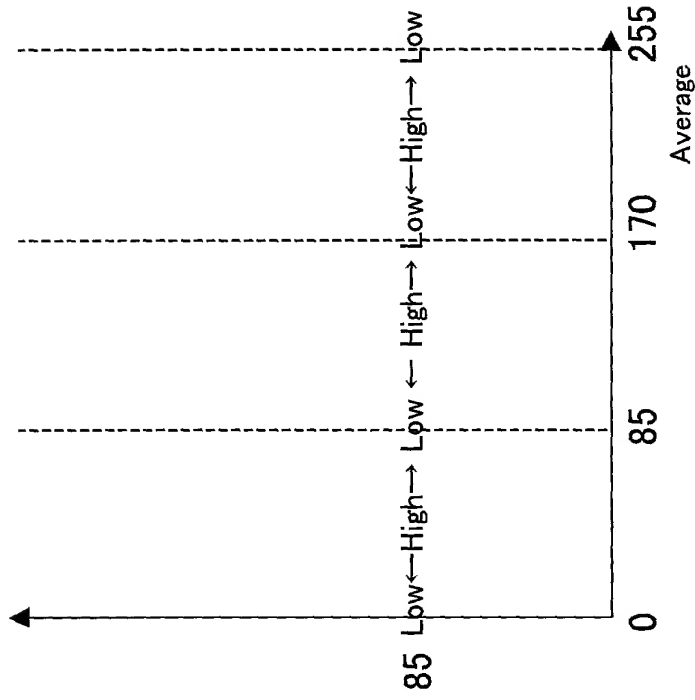


FIG. 7A

$\text{mod}(\text{Avg}, 255/(Q-1))$   
Q=2 (Binarize)

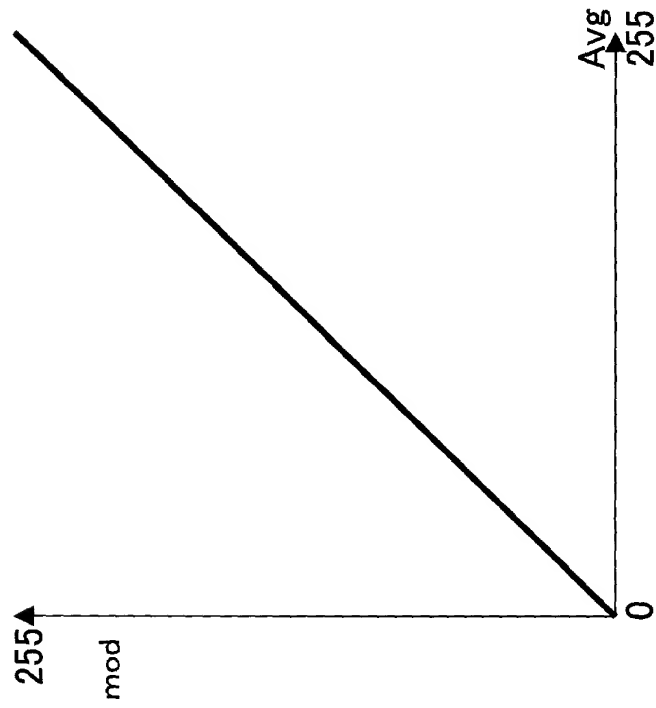


FIG. 7B

$\text{mod}(\text{Avg}, 255/(Q-1))$   
Q=4 (Quaternary)

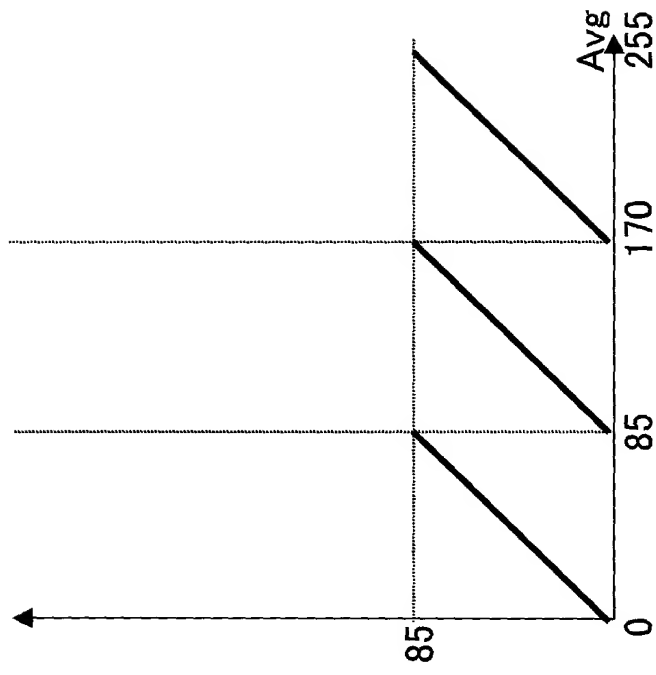


FIG. 8A

$$\text{mod}(\text{Avg}, 255/(Q-1)) - 255/2(Q-1)$$

Q=2 (Binarize)

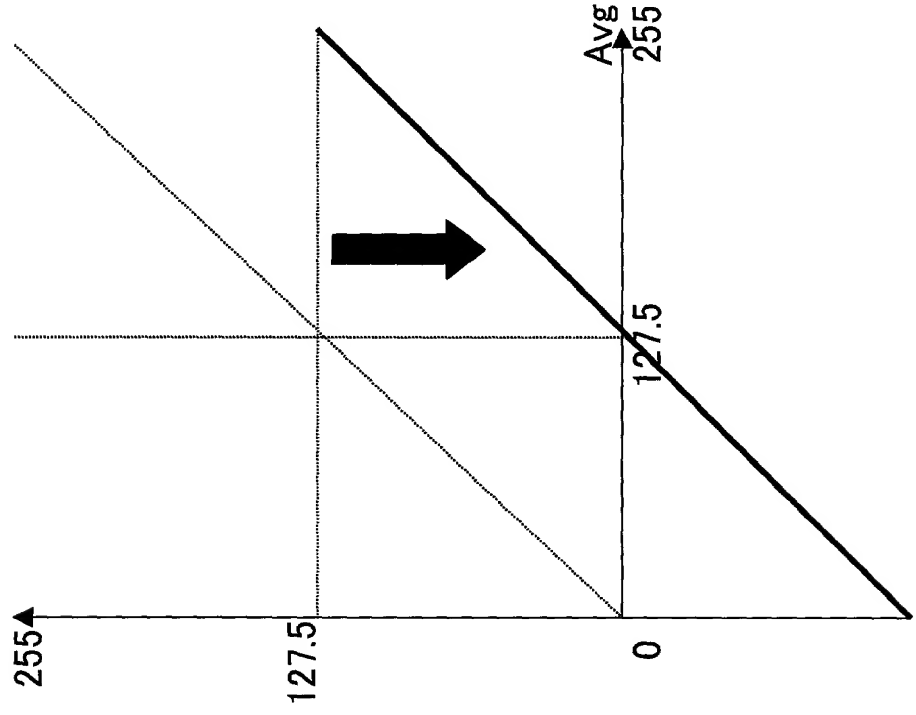


FIG. 8B

$$\text{mod}(\text{Avg}, 255/(Q-1)) - 255/2(Q-1)$$

Q=4 (Quaternary)

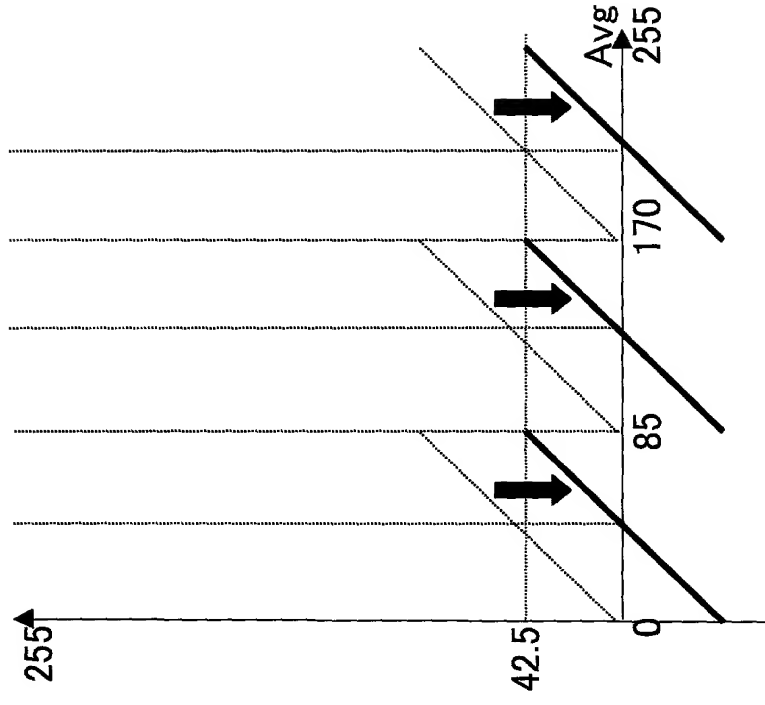




FIG. 9A

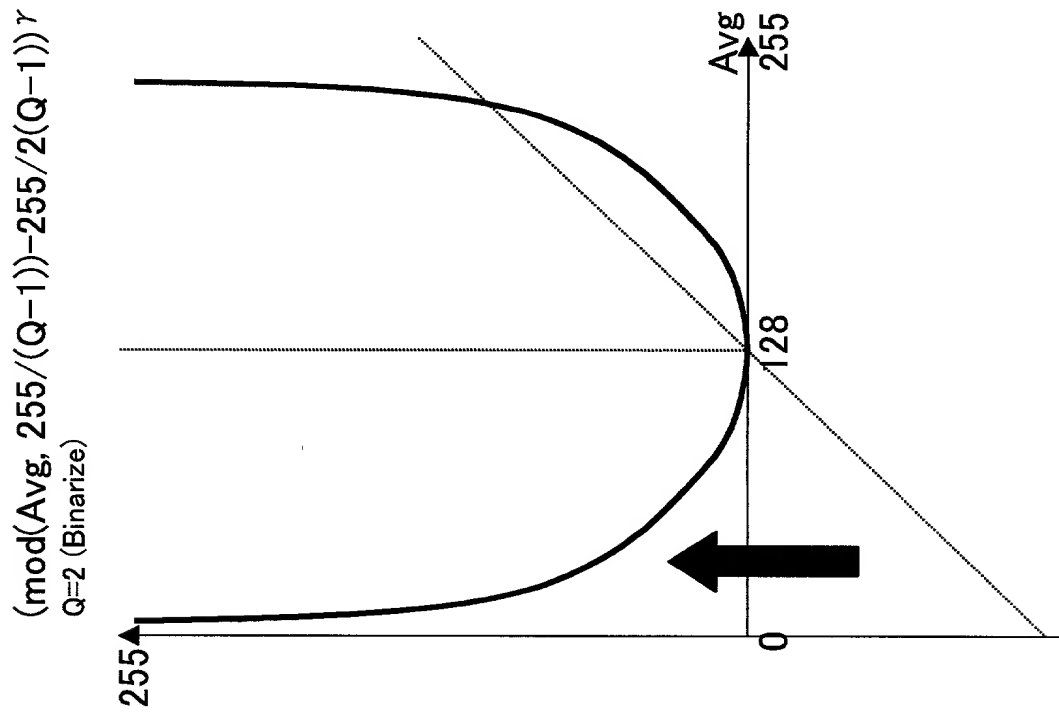


FIG. 9B

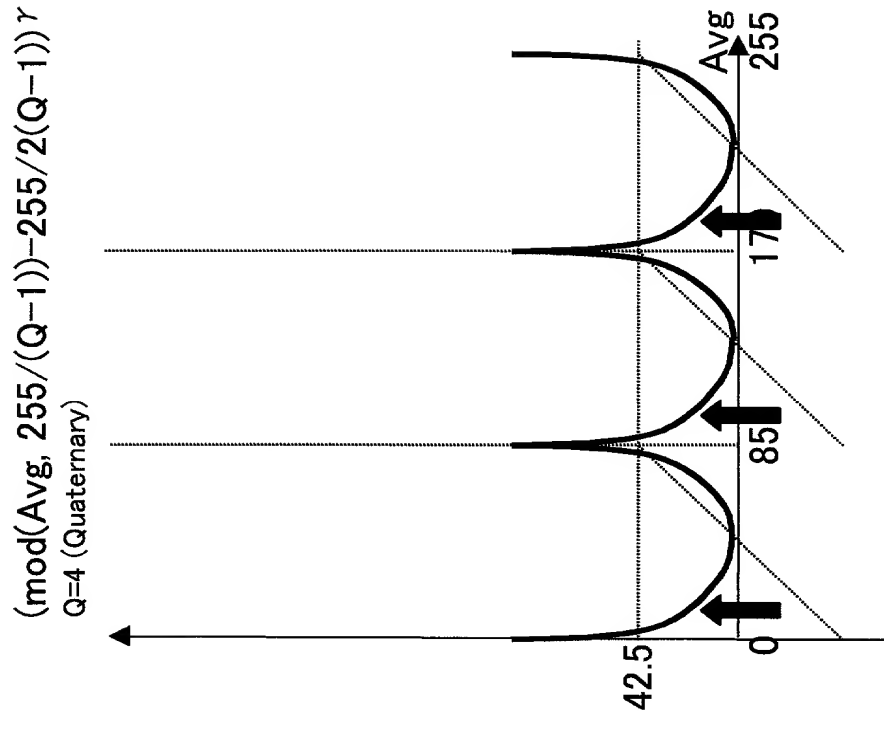


FIG. 10

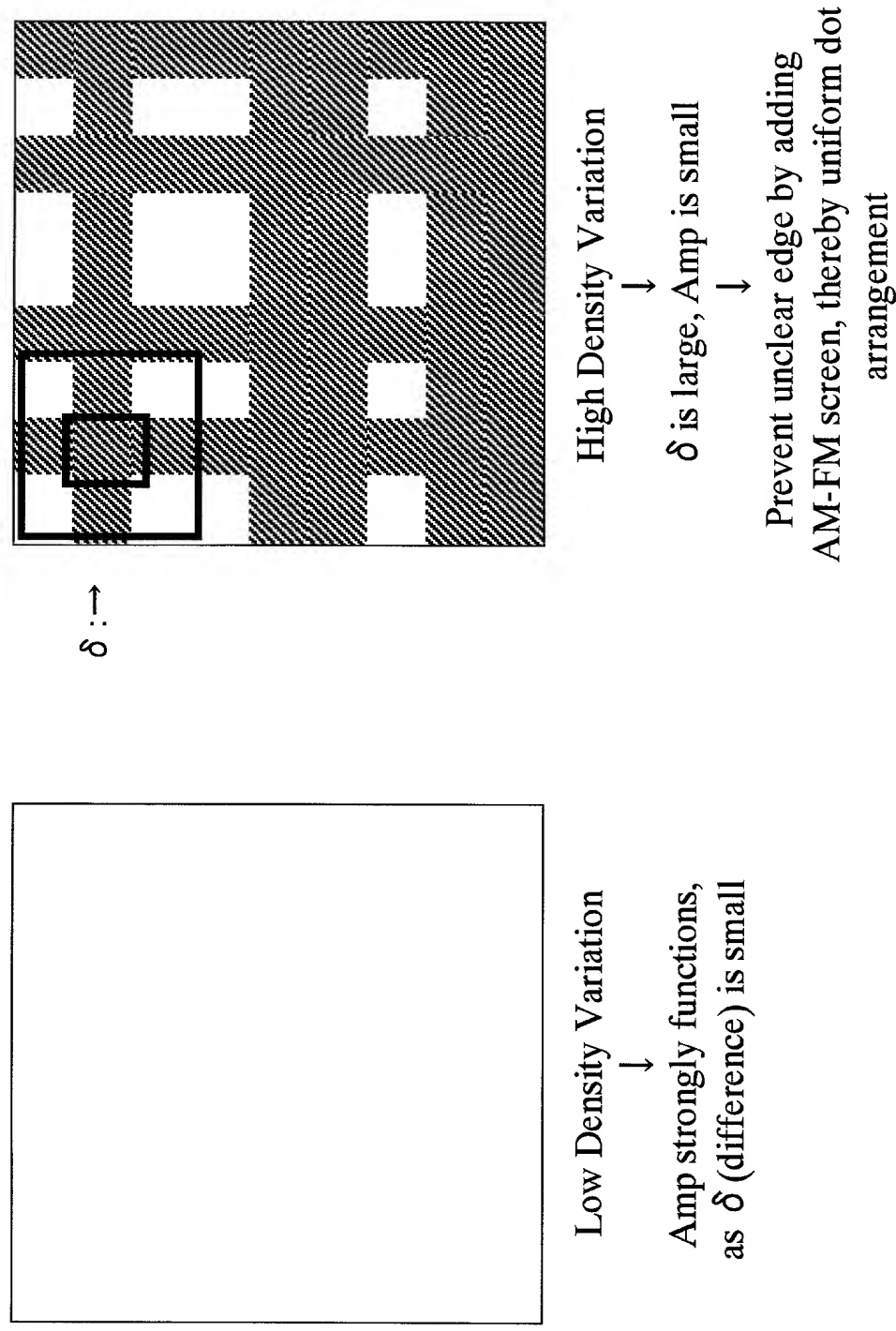


FIG. 11

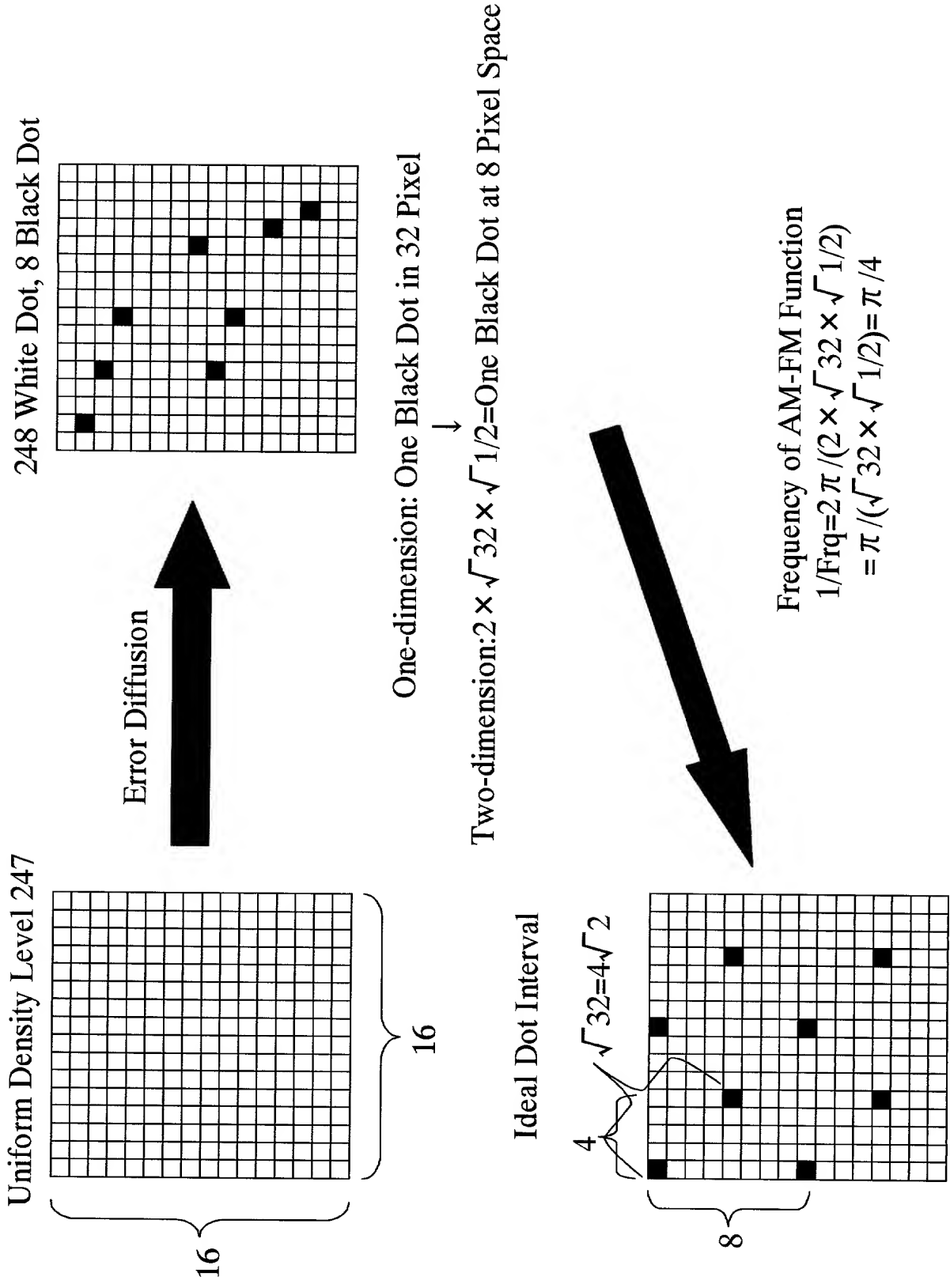
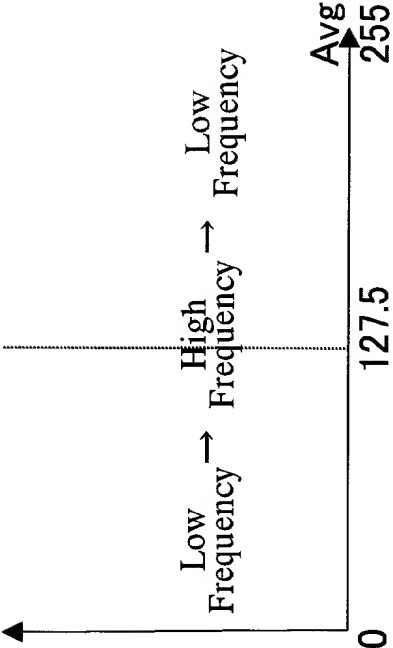


FIG. 12

Binarize  
if Avg>127.5  
Frq= $\sqrt{(1/2) \times \sqrt{255/(255-Avg)}}$   
else  
Frq= $\sqrt{(1/2) \times \sqrt{255/Avg}}$



Quaternary  
if mod(Avg, 85)-42.5>=0  
Frq= $\sqrt{(1/2) \cdot \sqrt{[85-\text{mod}(Avg, 85)]}}/\pi$   
else  
Frq= $\sqrt{(1/2) \cdot \sqrt{[85/\text{mod}(Avg, 85)]}}/\pi$

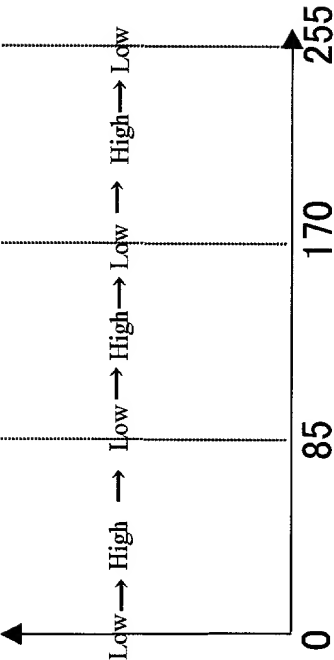


FIG. 13

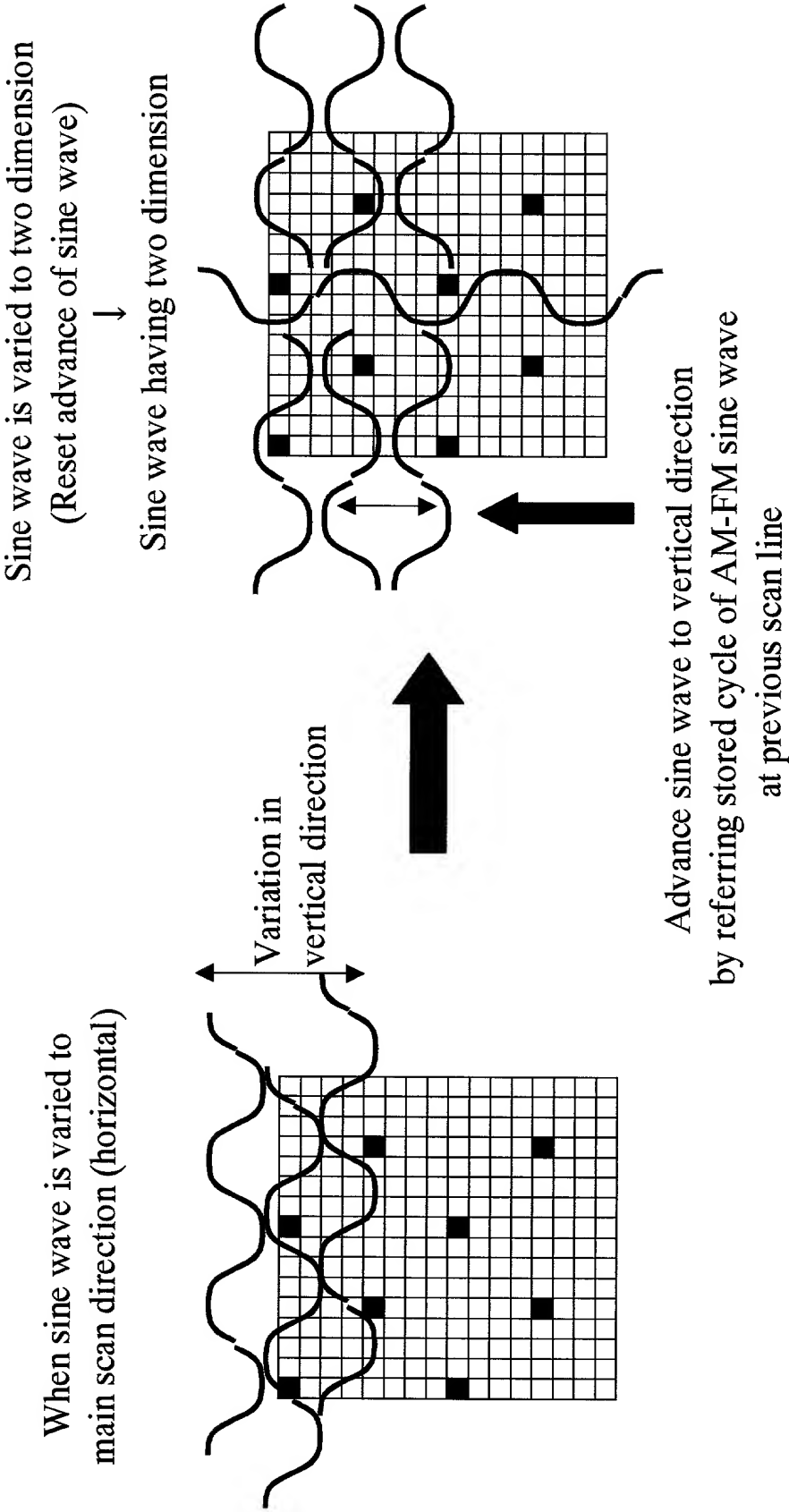


FIG. 14

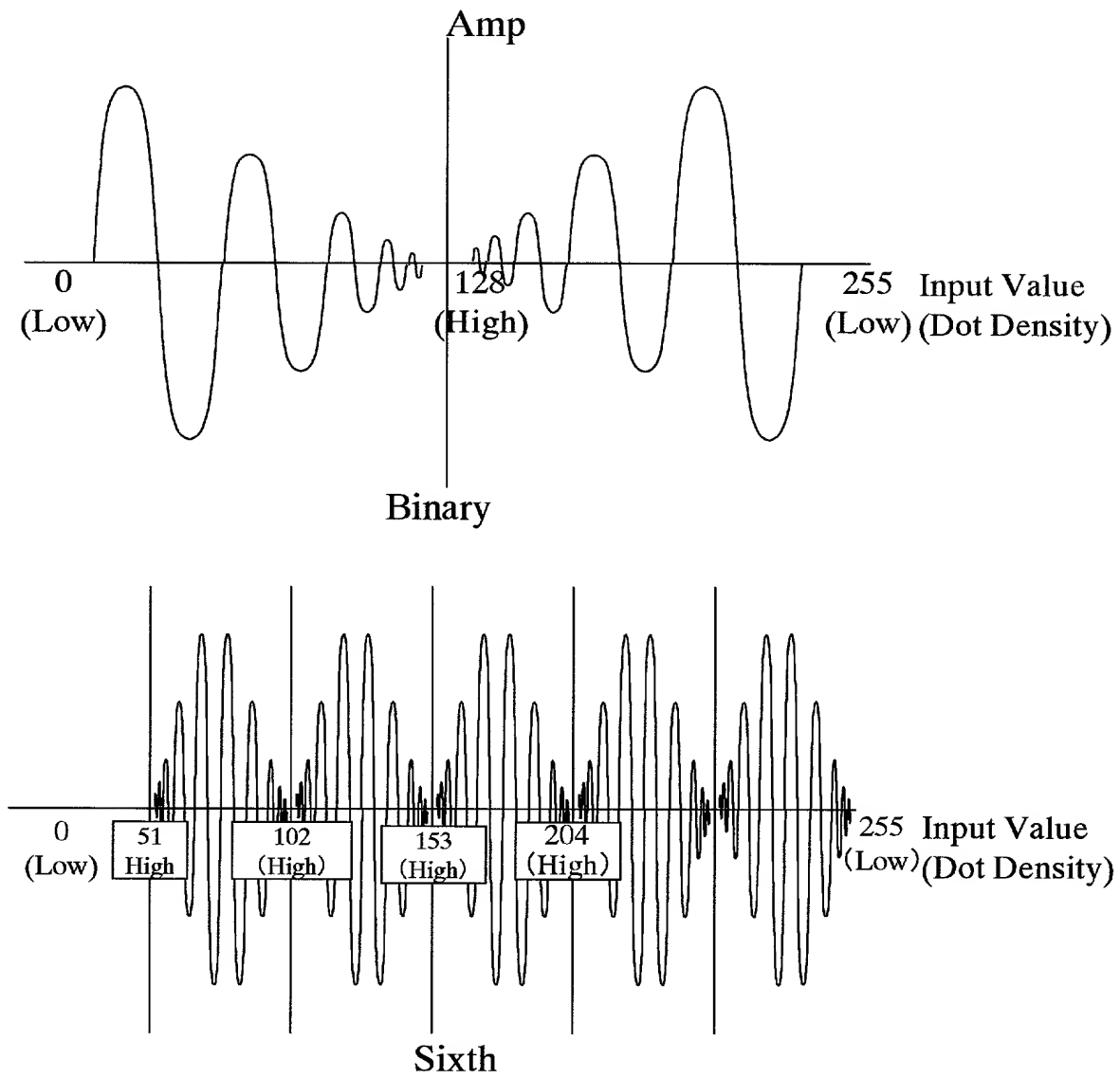


FIG. 15

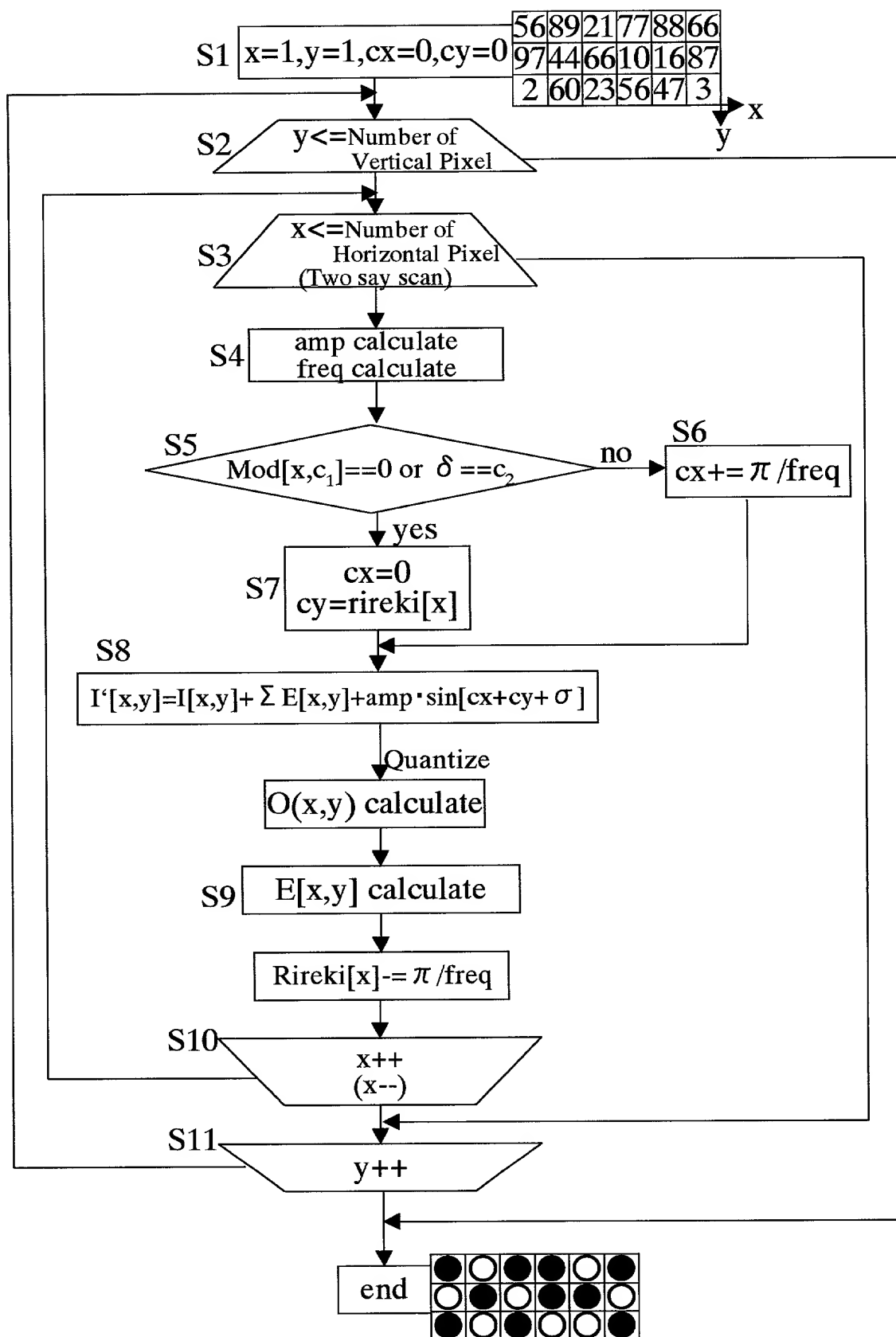


FIG. 16

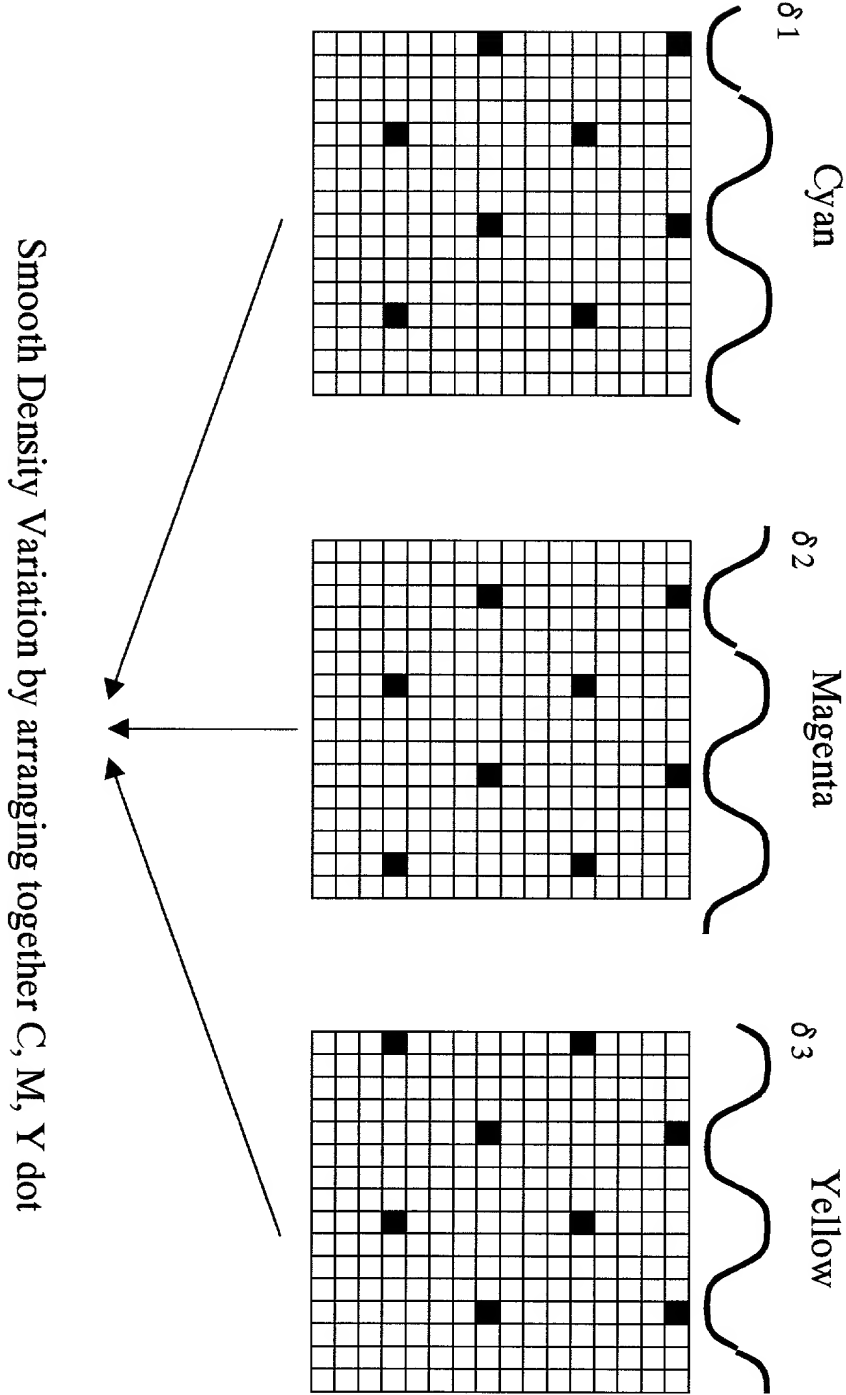




FIG. 17

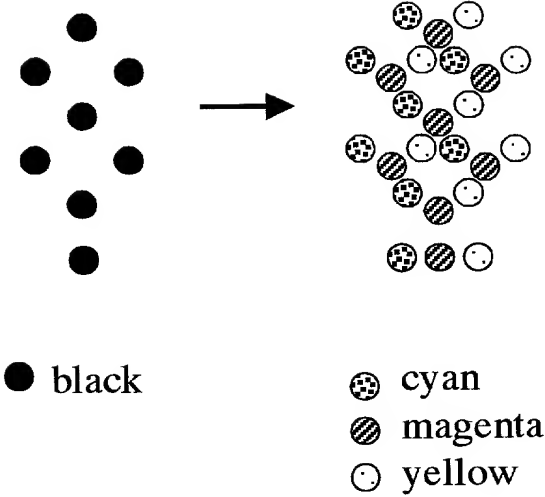


FIG. 18

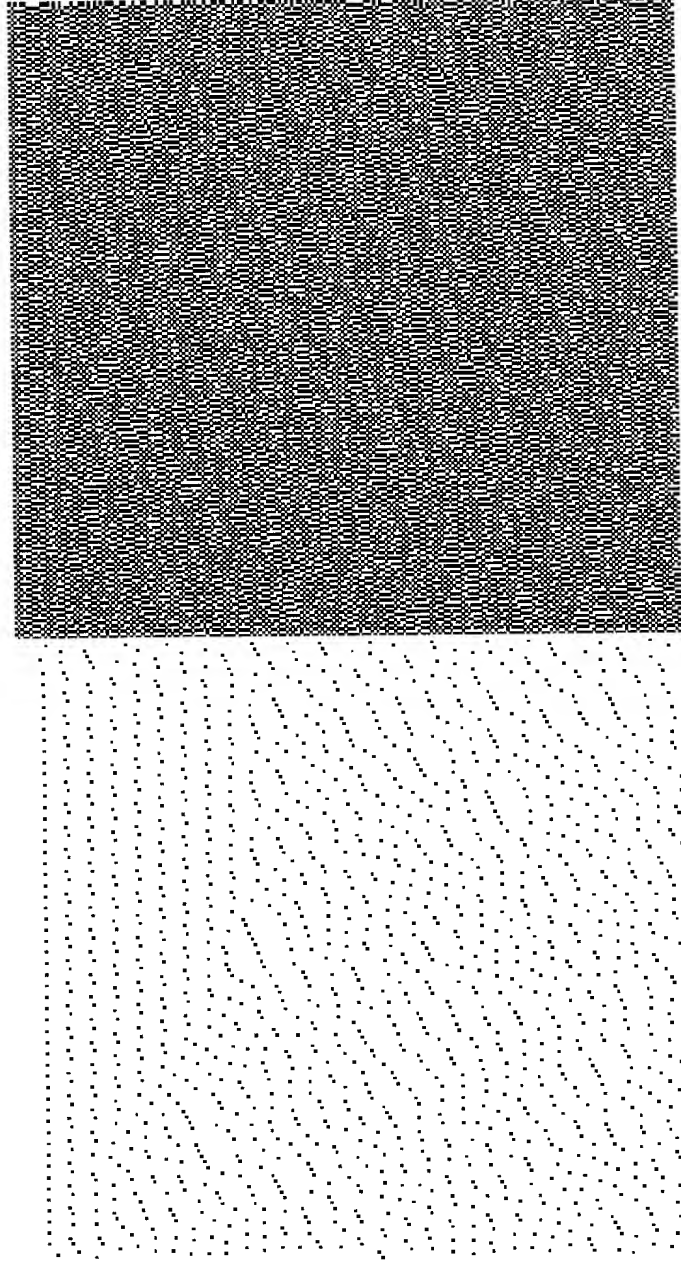


FIG. 19

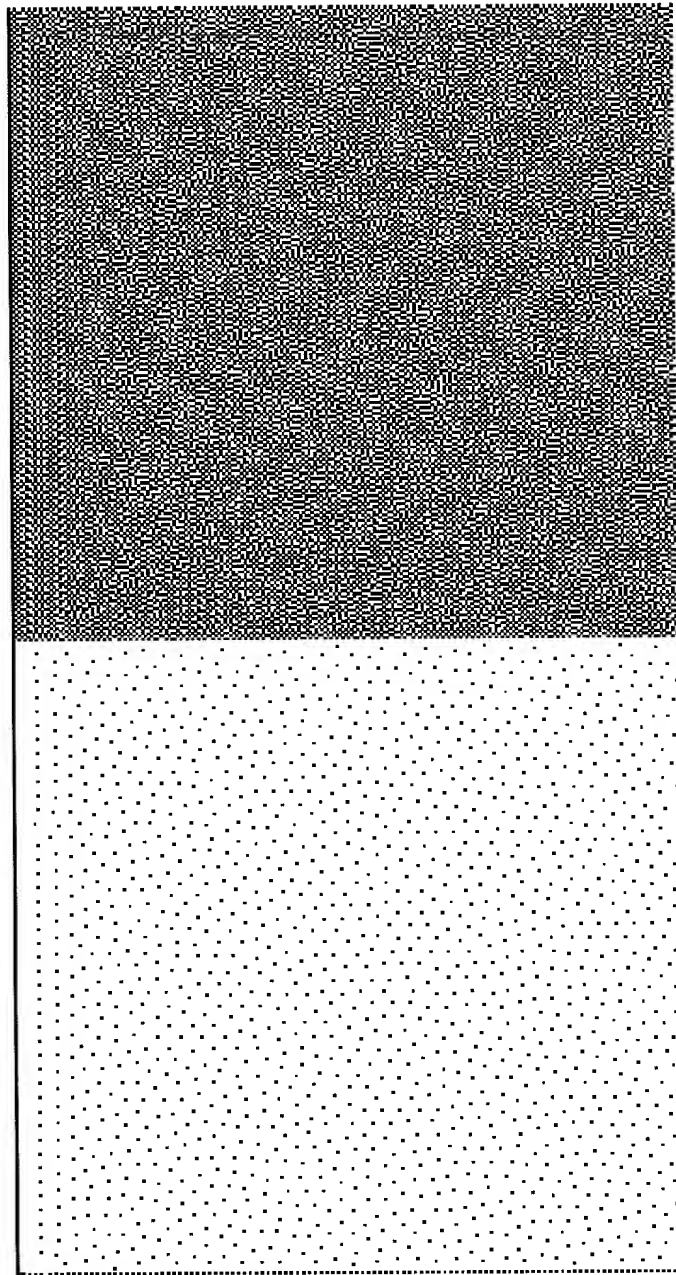


FIG. 20

